Sheet

Attorney Docket No. :Bayer 10,203 KGB Applicant :HAGEN et al

:09/424,686 :TBA Serial No. Group No.

Filing Date FORM PTO-1449

:11/29/99



INFORMATION DISCLOSURE STATEMENT BY APPLICANT U.S. PATENT DOCUMENTS

1/		Document No	. Date	Name	Class	Subclass	Filing Date
M	AA —	5,583,016	12/10/96	Villeponteau et al. (En	glish Equivalent	of WO 96 01835 A)	If Appropria
M	AB	5,747,317	05/05/98	Cao (Engli	sh Equivalent of	WO 98 01543 A)	
]	FOREIGN PATENT DOC	UMENTS		
Ex.	-	Document No.	Date	Name	Class	Subclass	Filing Date
Initial M	AC	WO 96 01835 siehe Seite 9, 2	A (Andrews W Zeile 31 - Seite	'illiam H; Villeponteau Br 10, Zeile 34; siehe Seite 55	mnt (TIC), El. 1	Vale (TIO) mmn as	Filing Date If Appropriate Januar 1996 spruche
eW	AD	WO 96 19580 siehe Beispiele	A (Cold Spring 8-10	Harbor Lab; Greider Car	ol (US); Collins I	Kathleen (US);) 27. Ju	ıni 1996
dM	AE	WO 96 40868 siehe Seite 8, Z	A (Cold Spring eile 15 - Seite 9	Harbor Lab; Greider Card, Zeile 27 siehe Beispiel 1	ol (US); Autexier	Chantal (US)) 19. Do	ezember 1996
W	AF		Zeile 14-Seite 7	lliam H; CECH THOMAS 0 und 613 siehe Seite 27, 2 9, Zeile 8; siehe Seite 91, iele			
M	AG	WO 98 21343 A Zeile 32 - Seite	A (Amgen Cana 95, Zeile 5 sieh	da Inc.; Amgen Inc. (US)) e Anspruche	22. Mai 1998 si	ehe Abbildung 9 siehe	Seite 68,
M	AH	WO 98 01543 A	(Tularik Inc)	15. Januar 1998 siehe das	ganze Dokument		
W	AI	WO 98 37181 A siehe Seite 37, Z	(Counter Chri eile 22-Seite 58	stopher M; Weinberg Rob 3, Ziele 16 siehe Abbildung	ert A (US); White	ehead Biomedica) 27	August 1998
		ОТНЕ	ER DOCUMEN	VTS (Including Author, Title	e, Date, Pertinent l	Pages, Etc.)	
W.	AJ	Greider C W: "T 365, XP0020568	elomere Length	1 Regulation" Annual Revi	ew of Biochemist	ry, Bd. 65, 1996, Sei	ten 337-
. 7	AK	Nakamura T M e	4 -1. WT.1				
dW ———			,, 00100	use Catalytic Subunit Hom n 955-959, XP002056803	siene das ganze	Dokument	
dw .	AL	Myerson M et al: REGULATED II 1997, Seiten 785	"HEST2, THE N TUMOR CE -795, XP00205	PUNATIVE HUMAN TEI LLS AND DURING IMM 6804 siehe das ganze Dok	LOMERASE CA CORTALIZATIO	Dokument TALYTIC SUBUNII N" CELL, Bd.90, Nr	GENE, IS UP- . 4, 22. August
dw .	AL AM	Myerson M et al.: REGULATED II 1997, Seiten 785- Kilian, A. et al.:	"HEST2, THE N TUMOR CE 795, XP00205	PUNATIVE HUMAN TELLS AND DURING MA	LOMERASE CA CORTALIZATIO	Dokument TALYTIC SUBUNIT N" CELL, Bd.90, Nr	GENE, IS UP- . 4, 22. August
dw dw	AM	Myerson M et al: REGULATED IN 1997, Seiten 785- Kilian, A. et al.: " November 1997,	"HEST2, THE N TUMOR CE 795, XP00205	PUNATIVE HUMAN TEI LLS AND DURING IMM 6804 siehe das ganze Dok	LOMERASE CA CORTALIZATIO	TALYTIC SUBUNIT N" CELL, Bd.90, Nr AR GENETICS., Bd. ganze Dokument	GENE, IS UP- . 4, 22. August
dw .	AM	Myerson M et al: REGULATED IN 1997, Seiten 785. Kilian, A. et al.: November 1997,	"HEST2, THE N TUMOR CE -795, XP00205 'Isolation of a c Seiten 2011-20	PUNATIVE HUMAN TEI LLS AND DURING IMM 6804 siehe das ganze Dok andidate human" HUM 19, XP002086926 OXFO	LOMERASE CA (ORTALIZATIO ument AN MOLECULA RD GB siehe das	TALYTIC SUBUNITIN" CELL, Bd.90, Nr AR GENETICS., Bd. ganze Dokument	GENE, IS UP- 4, 22. August 6,12.

Attorney Docket No. Bayer 10,203 KGB Applicant HAGEN et al

Applicant Filing Date

:11/29/99

Serial No.

:09/424,686 Group No. :TBA

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

		AN ORMATION DISCLOSURE STATEMENT BY APPLICANT	THADE
	-	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
x. itial			
M	AA	Adams, M.D., Dubnick, M., Kerlavage, A.R., Moreno, R., Kelley, J.M., Utterback, T.R., Nagle, J.W., Fields, C. und Venter, J.C. (1992). Sequence identification of 2.375 human brain genes. Nature 355: 632-634.	
W	AB	Allsopp, R. C., Vazire, H., Pattersson, C., Goldstein, S., Younglai, E.V., Futcher, A.B., Greider, C.W. und Harley, C.B. (1992). Telomere length predicts replicative capacity of human fibroblasts. Proc. Natl. Acad. Sci. 89, 10114-10118.	
M	AC	Altschul, S. F., Gish, W., Miller, W., Myers, E. W. et al. (1990). Basic local alignment search tool. J. Mol. Blol. 215, 403-410.	
M	AD	Blasco, M. A., Rizen, M., Grelder, C. W. und Hanahan, D. (1996). Differential regulation of telomerase activity and telomerase RNA during multistage tumorigenesis. Nature Genetics 12, 200-204.	
dW	AE	Broccoli, D., Young, J. W. und deLange, T. (1995). Telomerase activity in normal and malignant hematopoietic cells. Proc. Natl. Acad. Sci. 92, 9082-9086.	
W	AF	Collins, K., Kobayashi, R. und Greider, C. W. (1995). Purification of Tetrahymena telomerase and cloning of genes encoding the two protein components of the enzyme. Cell 81, 677-686.	
W	AG	Counter, C. M., Avillon, A. A., LeFeuvre, C. E., Stewart, N. G. Greider, C.W. Harley, C. B. und Bacchetti S. (1992). Telomere shortening associated with chromosome instability is arrested in immortal cells which express telomerase activity. EMBO J. 11, 1921-1929.	
W	AH	Counter, C. M., Gupta, J., Harley, C. B., Leber, B. und Baccetti, S. (1995). Telomerase activity in normal leukocytes and in hematologic malignancies. Blood 85, 2315-2320.	
dW	AI	Feng, J., Funk, W. D., Wang, SS., Weinrich, S. L., Avilion, A.A., Chiu, CP., Adams, R.R., Chang, E., Allsopp, R.C., Yu, J., Le, S., West, M.D., Harley, C.B., Andrews, W.H., Greider, C.W. und Villeponteau, B. (1995). The RNA component of human telomerase. Science 269, 1236-1241.	
W.	AJ	Gerhold, D. und Caskey, T. (1996). It's the genes! EST access to human genome content. BioEssays 18, 973-981.	
	AK .	Goldstein, S. (1990). Replicative senescence: The human fibroblast comes of age. Science 249, 1129-1133.	٠.
(AL	Greider, C. W. und Blackburn, E. H. (1985). Identification of a specific telomere terminal transferase activity in <i>Tetrahymena</i> extracts. Cell 43, 405-413.	
	Examir	ner: Mahilla Date Considered: 8/06/0	
	*Exam	· · · · · · · · · · · · · · · · · · ·	

Initial if reference citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant(s).

Attorney Docket No. :Bayer 10,203 KGB Applicant :HAGEN et al

Filing Date

Serial No. Group No. :09/424,686 :TBA

:11/29/99

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APR 1 0 2000

			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	TRAD
Ex. Initial			. = =
dw	AA	Greider, C. W. und Blackburn, E. H. (1987). The telomere terminal transferase of Tetrahymena is a ribonucleoprotein enzyme with two kinds of primer specificity. Cell 51, 887-898.	
M	AB	Grelder, C. W. und Blackburn, E. H. (1989). A telomeric sequence in the RNA of Tetrahymena telomerase required for telomere repeat synthesis. Nature 337, 331-337.	
dW,	AC	Harley, C. B., Futcher, A. B. und Greider, C. W. (1990). Telomeres shorten during ageing of human fibroblasts. Nature 345, 458-460.	
M	AD	Harrington, L., McPhail, T., Mar, V., Zhou, W., Oulton, R., Amgen EST Program, Bass, M.B., Arruda, I. und Robinson, M.O. (1997). A mammalian telomerase-associated protein. Science 275: 973-977.	
М	AE	Hastle, N. D., Dempster, M., Dunlop, M. G., Thompson, A. M., Green, D.K. und Allshire, R.C. (1990). Telomere reduction in human colorectal carcinoma and with ageing. Nature 346, 866-868.	
dh/	AF	Hiyama, K., Hirai, Y., Kyoizumi, S., Akiyama, M., Hiyama, E., Piatyszek, M.A., Shay, J.W., Ishloka, S. und Yamakido, M. (1995). Activation of telomerase in human lymphocytes and hematopoietic progenitor cells. J. Immunol. 155, 3711-3715.	
M	AG	Kim, N.W., Piatyszek, M.A., Prowse, K.R., Harley, C. B., West, M.D., Ho, P.L.C., Coviello, G.M., Wright, W.E., Weinrich, S.L. und Shay, J.W. (1994). Specific association of human telomerase activity with immortal cells and cancer. Science 266, 2011-2015.	
JW.	AH	Lingner, J., Hughes, T.R., Shevchenko, A., Mann, M., Lundblad, V. und Cech T.R. (1997). Reverse transcriptase motifs in the catalytic subunit of telomerase. Science 276: 561-567.	
dW	AI	Lundblad, V. und Szostak, J. W. (1989). A mutant with a defect in telomere elongation leads to senescence in yeast. Cell 57, 633-643.	
W	AJ	McClintock, B. (1941). The stability of broken ends of chromosomes in Zea mays. Genetics 26, 234-282.	
ÝΜ	AK	Meyne, J., Ratliff, R. L. und Moyzis, R. K. (1989). Conservation of the human telomere sequence (TTAGGG) _n among vertebrates. Proc. Natl. Acad. Sci. 86, 7049-7053.	
M	AL	Okubo, K., Hori, N., Matoba, R., Niiyama, T., Fukushima, A., Kojima, Y. and Matsubra, K. (1992). Large scale cDNA sequencing for analysis of quantitative and qualitative aspects of gene expression. Nature Genetics 2:	
		h Col ()	

Examiner: MMWW

Date Considered: WWG

*Examiner:

Initial if reference citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form

Sheet :09/424,686 Serial No. Group No. :TBA APR 1 0 2000

Attorney Docket No. :Bayer 10,203 KGB
Applicant :HAGEN et al
Filing Date :11/29/99

Filing Date FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

			O A THAC
		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
Ex. Initial M	AA	Olovnikov, A. M. (1973). A theory of marginotomy. J. Theor. Biol. 41, 181-190.	
dw	AB	Poch, O., Sauvaget, I., Delarue, M. und Tordo, N. (1989). Identification of four conserved motifs among the RNA-dependent polymerase encoding elements. EMBO J. 8: 3867-3874.	
M	AC	Prowse, K. R., Avilion, A. A. und Greider, C. W. (1993). Identification of a nonprocessive telomerase activity from mouse cells. Proc. Natl. Acad. Sci. 90, 1493-1497.	
M	AD	Sandell, L. L. und Zakian, V. A. (1993). Loss of a yeast telomere: Arrest, recovery and chromosome loss. Cell 75, 729-739.	
M	AE	Shampay, J. und Blackburn, E. H. (1988). Generation of telomere-length heterogenity in Saccharomyces cerevisiae. Proc. Natl. Acad. Sci. 85, 534-538.	,
M	AF	Shay, J. W. (1997). Telomerae and Cancer. Ciba Foundation Meeting: Telomeres and Telomerase. London.	
M	ÄG	Singer, M. S. und Gottschling, D. E. (1994). <i>TLC1</i> : Template RNA Component of <i>Saccharomyces cerevisiae</i> Telomerase. Science 266 , 404-409.	
M	AH	Vaziri, H., Dragowska, W., Allsopp, R. C., Thomas, T. E., Harley, C.B. und Landsdorp, P.M. (1994). Evidence for a mitotic clock in human hematopoietic stem cells: Loss of telomeric DNA with age. Proc. Natl. Acad. Sci. 91, 9857-9860.	
W	AI	Xiong, Y. und Eickbush, T.H. (1990). Origin and evolution of retroelements based upon their reverse transcriptase sequences. EMBO J. 9: 3353-3362.	
h	AJ	Yu, GL., Bradley, J. D., Attardi, L. D. und Blackburn, E. H. (1990). In vivo alteration of telomere sequences and senescence caused by mutated <i>Tetrahymena</i> telomerase RNAs. Nature 344 , 126-132.	
M	AK	Zakian, V. A. (1995). Telomeres: Beginning to understand the end. Science 270, 1601-1607.	
W	AL	Altschul, S. F., Gish, W., Miller, W., Myers, E. W. et al. (1990). Basic local alignment search tool. J. Mol. Biol. 215, 403-410. (see point 3)	
	Exam	niner: Initial if reference citation considered and the considered: 08 08	01

*Examiner:

Initial if reference citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant(s),

Sheet	5 of _	
erial No. roup No.	:09/424,686 :TBA	APR 1 0 2000 11

Attorney Docket No. :Bayer 10,203 KGB Applicant :HAGEN et al

Filing Date

:11/29/99

Se G

FORM PT,O-1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

_		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
itial	AA.	Gerhold, D. und Caskey, T. (1996). It's the genes! EST access to human genome content. BioEssays 18, 973-981. (see point 10)
A	AB	Lingner, J., Hughes, T.R., Shevchenko, A., Mann, M., Lundblad, V. und Cech T.R. (1997). Reverse transcriptase motifs in the catalytic subunit of telomerase. Science 276: 561-567. (see point 20)
Į.	AC	
Ā	AD	
J	AE	
Ā	AF	
Ā	ĀG	
A	Н	
A	AI .	
.A	Ŋ	
A	ıK	
Ā	L.	
		aminer: Millia Date Considered: 08 08 51

*Examiner:

Initial if reference citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant(s).